



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: June 7, 2011

TO: Mayor and Councilmembers

FROM: Water Resources Division, Public Works Department

SUBJECT: Contract For Development Of Wastewater Collection System Strategic Management Program, Phase II

RECOMMENDATION:

That Council authorize the Public Works Director to execute a contract with Brown and Caldwell in the amount of \$144,820 to continue development of the Collection System Capital Planning and related Sewer System Management Plan activities, and authorize the Public Works Director to approve expenditures of up to \$14,482 for extra services of Brown and Caldwell that may result from necessary changes in the scope of work, for a total not-to-exceed amount of \$159,302.

DISCUSSION:

Background

The City of Santa Barbara owns and operates approximately 277 miles of wastewater collection system pipes and nine lift stations. Annual operating expenditures for the Collection System Section average approximately \$3 million. Capital expenditures for the collection system pipes and lift stations average \$1.5 million per year, for an annual average total expenditure of approximately \$4.5 million. Historically, the City has reported a low number of spills from the system. In an effort to ensure that spill rates remain low, staff has taken a number of steps to increase the amount and effectiveness of sewer pipe cleaning, including:

- Technical training for Collection System staff in pipe cleaning techniques;
- Installation of Global Positioning System (GPS) units on vehicles to verify cleaning practices;
- Rental of a pipeline cleaning vehicle to backfill for equipment unavailable due to breakdown; and
- Contracting for pipeline cleaning to increase the number of miles cleaned

These actions effectively reduced the number of spills in the second half of 2010 and first five months of 2011.

Additionally, the City of Santa Barbara contracted with Brown & Caldwell to develop and implement a comprehensive system to manage the prioritization of pipeline cleaning and replacement. This project has been structured into two phases:

Phase I: Development of a Comprehensive Maintenance Management Program

Phase II: Development of a needs-based Capital Improvement Program (CIP)
prioritization schedule for pipe replacement or rehabilitation

Phase I of this contract work was approved by City Council on January 11, 2011, and is nearing completion. At the January 11th Council meeting, staff informed Council that they would be returning for authorization of this second phase of work. The work to be performed in Phase II is summarized in the following paragraphs.

Phase II - Collection System Capital Planning and Sewer System Management Plan Update

The current approach to identifying pipes for CIP repair or replacement is based on staff knowledge. Staff desires to use the Cartegraph Computerized Maintenance Management Software (Cartegraph) to develop a repair/replacement planning process based on pipe condition. To do so, information on age, pipe material, structural condition, criticalness, and maintenance requirements will need to be developed and built into Cartegraph to prioritize CIP planning. Developing a comprehensive database for CIP planning will allow staff to project more long-term needs, instead of being limited to the two or three-year outlook plan that is currently available. Brown and Caldwell will also evaluate the wastewater lift stations for rehabilitation needs in order to identify and prioritize future capital needs.

Other Phase II work includes developing a workload management system to prioritize restaurant inspections; evaluating the priority and need for future flow monitoring programs; and updating the City's required Sewer System Management Plan. All of these work items are requirements of the City's permit for the wastewater collection system. This work is scheduled to take approximately six months to complete.

Staff issued a Request for Proposals (RFP) for this project to more than a dozen firms. Staff received three proposals, and Brown and Caldwell was unanimously determined by a panel of staff and a member of the Water Commission to have submitted the most complete response to the RFP. Brown and Caldwell also had the lowest cost proposal. Accordingly, staff recommended Brown and Caldwell for selection and, at its meeting of November 8, 2010, the Water Commission voted 5/0 to concur with staff's recommendation.

BUDGET/FINANCIAL INFORMATION:

The cost for the second phase of work is \$159,302. Staff seeks authorization to have the Public Works Director execute this second contract. There are adequate appropriated funds in the Wastewater Capital Fund to cover the costs.

SUSTAINABILITY IMPACT:

Improving collection system performance and prioritizing CIP projects will result in a decrease in spills and the resulting discharges of wastewater to the environment.

PREPARED BY: Christopher Toth, Wastewater System Manager/mh

SUBMITTED BY: Christine F. Andersen, Public Works Director

APPROVED BY: City Administrator's Office